

ABSTRACT OF THE DISCLOSURE

METHOD AND SYSTEM FOR FAULT-TOLERANT REMOTE BOOT IN THE
PRESENCE OF BOOT SERVER OVERLOAD/FAILURE WITH
5 SELF-THROTTLING BOOT SERVERS

10 A method and system are presented for facilitating a
PXE-compliant (Preboot Execution Environment) remote boot
process between clients and multiple available servers on
a network. Each server device can respond to a
PXE-extended DHCP (Dynamic Host Configuration Protocol)
Request message from any client device on the network.
Each client can receive responses from the alternate
servers, select a server from one of those responses, and
15 be directed by that response to complete the remote boot
process from the same server. Each server also employs a
self-throttling process to prevent the server from
responding to new PXE-extended DHCP request messages from
additional clients while the server has insufficient
20 resources to remote boot additional clients with the
required quality of service. This automatically
redirects those additional clients to other servers that
can provide the required quality of service without
affecting the remote boot of clients already being
25 serviced by the server.